



The Superalloys: Fundamentals and Applications

By Roger C. Reed



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Superalloys are unique high-temperature materials used in gas turbine engines, which display excellent resistance to mechanical and chemical degradation. This book presents the underlying metallurgical principles which have guided their development and practical aspects of component design and fabrication from an engineering standpoint. The topics of alloy design, process development, component engineering, lifetime estimation and materials behaviour are described, with emphasis on critical components such as turbine blading and discs. The first introductory text on this class of materials, it will provide a strong grounding for those studying physical metallurgy at the advanced level, as well as practising engineers. Included at the end of each chapter are exercises designed to test the reader's understanding of the underlying principles presented. Solutions for instructors and additional resources are available at www.cambridge.org/9780521859042.



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Review

'...the content is as relevant to those who design jet engines, as it is to advanced metallurgists who are charged with developing the superalloys even further.' The Aeronautical Journal

About the Author

Roger C. Reed is Professor and Chair in Materials Science and Engineering at Imperial College London. He is widely known for his work on the physical metallurgy of the superalloys.

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